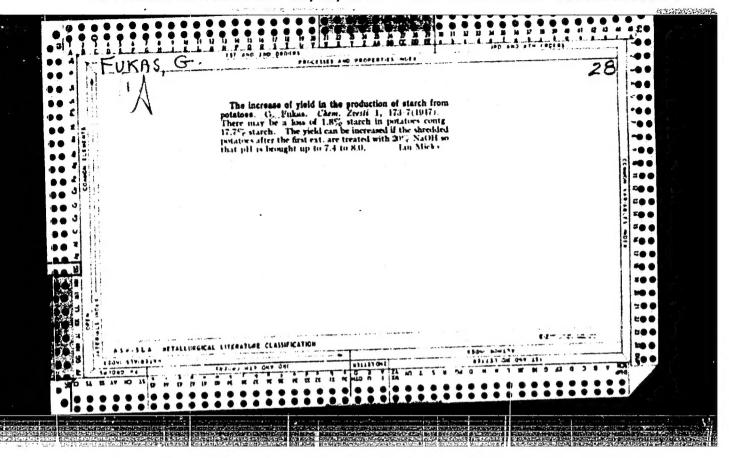
FUKAREK, Vera, Major mr. ph.

Methods of histamine determination for clinical purposes.
Voj. san. pregl., Beogr. 13 no.9-10:468-470 Sept-Oct 56.

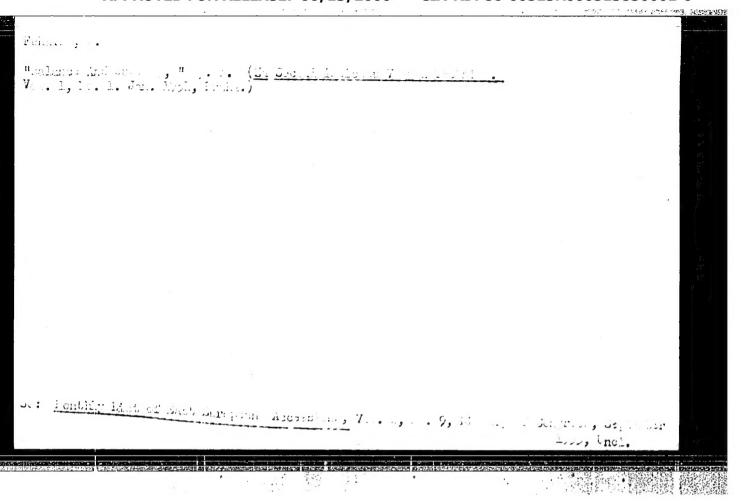
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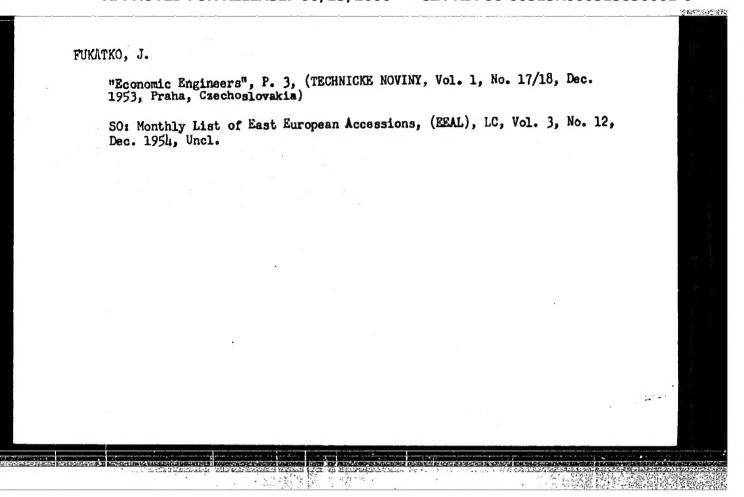


BENISKA, Jozef, doc. inz.; FUKAS, Gustav, inz.

Modification of caoutehoues. Pt.5. Chem zvesti 18 no.2:109-116

1. Department of Organic Technology, Slovak Higher School of Technology, Bratislava, Kollarovo namesti 2.





"Education of technicians toward economic thinking, p.1" ZA SOCIALISTICKOU VEDU A TECHNIKU.Vol.3, no.1, Jan 1953. Czecheslovakia.

SO: Monthly List of Eart European Accessions, 4.C., Vol.3, No.5, May 1953 Uncl.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000513830001-0"

FUKATO, J. - Normalisace, Vol 4. No. 1, Jan 1955

Tasks of Czechoslovak technical standardization in the present year. p.1

SO: Monthly list of East European Accessions, ESAL, IC, Vol. 4, No. 9, Sept. 1955 Uncl.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000513830001-0"

L 21858-65 EWT(m)/EWP(k)/EWA(d)/EWP(t)/EWP(b) Pf-4 AFWL/SSD/ASD(m)-3/
APEC(d)/APGC(f) JD/HW
ACCESSION NR: AP5001587 Z/0031/64/012/012/0881/0985

AUTHOR: Fukatko, R. (Engineer, Candidate of sciences); Vacek, J. (Engineer)

TITLE: Explosives and their effect in explosive metal forming

SOURCE: Strojirenoka vyroba, v. 12, no. 12, 1964, 881-885

TOPIC TAGS: explosive forming, metal explosive forming, metal forming explosive, impact wave, impact wave propagation, semtex 1 explosive

ABSTRACT: Some fundamentals of the explosive forming of metals are briefly reviewed. It is shown that the detonation rate, the most important characteristic of explosives, varies greatly in the case of conventional industrial explosives, depending on the density, homogeneity, shape, and size of the charge and the conditions of detonation (see Fig.1 of the Enclosure). Therefore, a special metal forming explosive, Semtex 1, has been developed. This explosive detonates at a constant rate in all charge sizes from 2 mm up. It is completely vaterproof and can be shaped in any form. Its characteristics are: heat of explosion—1190 kcal/kg, gas specific volume—0.75 m/kg, detonation rate—7600 m/sec, and density—1.49 g/cm<sup>3</sup>. The duration of the impact wave is one hundred thousandth to one thousandth of a second. The intensity of impact waves depends on the medium in which it propagates. Generally, the greater the accus-

Cord 1/1/2

L 21858-65 ACCESSION IN: APSOC1587

the resistance of the medium, the more intensive is the propagation of the impact wave. The pressure of the impact waves of Semtex 1 in water is such higher than in air (see Fig. 2 of the Enclosure). The projugation rate in air depends on the overpressure in front of impact wave. For instance, for an overpressure of 1 kp/cm² the propagation rate is 160 m/sec, and for an overpressure of 1000 kp/cm² it is about 10,000 m/sec. In water, however, at an overpressure of 1 kp/cm² the propagation rate is 1600 m/sec, and at an overpressure of 1000 kp/cm² the propagation rate is 1590 m/sec. The impact wave in nonhomogeneous media such as dry sand becomes deformed and changes gradually into an ordinary pressure wave (see Fig. 3 of the Enclosure). The pressure of impact waves at the point of transition from air increases 13 times and from water, 2—3 times. The form of the charge determines the configuration of the pressure field, i.e., a ball charge produces a circular impact wave and a cylindrical charge produces a wave in pair form. The pressure of the latter decreases nore slowly. Orig. art. has: 9 figures

ASSOCIATION: Vyzkumny ustav prumyslove chemie, Pardubice--Semtin (Research Institute of Industrial Chemistry)

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FINCL: 03

SUB CODE: WA. MM

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ATD PRESS: 3169

FUKATKO, T.

"Apparatus for measuring the properties of electronics." p. 251

SDELOVACI TECHNIKA. Praha, Czechoslovakia, Vol. 3, No. 8, Aug., 1955

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 9, September, 1959 Unclas

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000513830001-0"

FUKATKO, T.

FUKATKO, T. Servomechanism stabilzer of voltage in a 2-kw. network with a voltage stability of  $\pm$  0.5% p. 20

Vol. h, no. 1, Jan. 1956 SDELOVACI TECHNIKA TECHNOLOGY Praha, Czechoslovakia

So: East European Accession Vol. 6, no. 2, 1957

# FUKATKO, T.

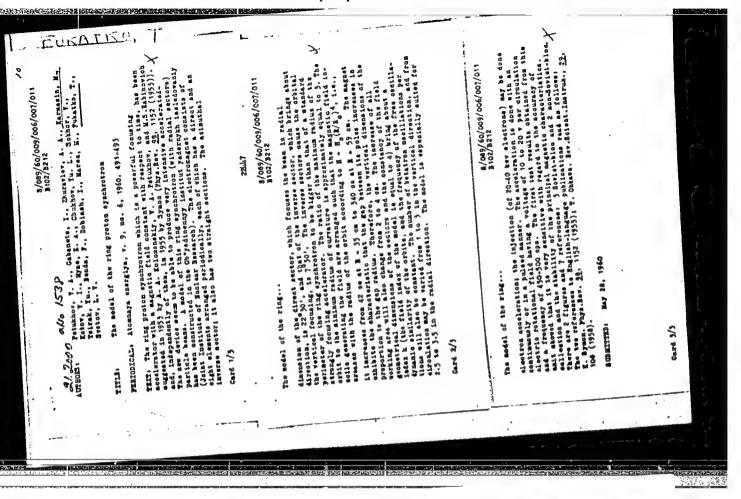
Increasing danger from radioactive instruments. p. 42

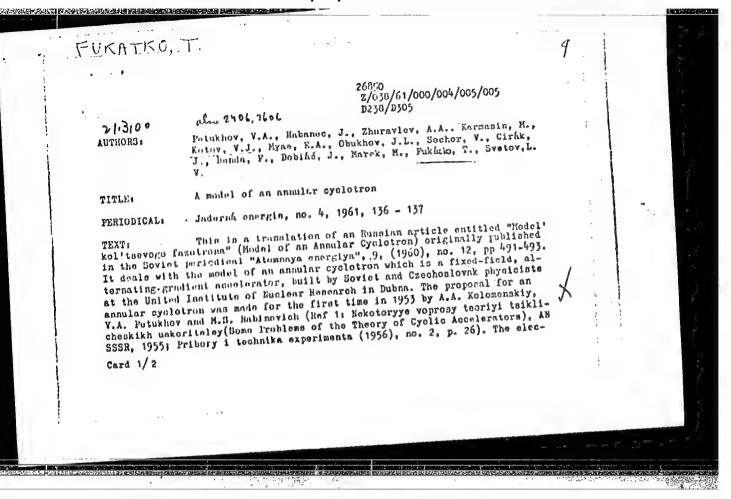
NORMALIZACE. (Urad pro normalizac) Praha, Czechoslovakia, Vol. 7, no. 3, Sept. 1959

Monthly List of East European Accessions (EEAI), LC. Vol. 9, no. 2, Feb. 1960

Uncl.

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000513830001-0





26850 Z/038/61/000/004/005/005 D238/D305

A model of an annular cyclotron

tromagnet of the accelerator consists of eight minitar, alternately reserved parts, each of which has two sectors with opposite orientation of the magnetic field, and two straight sections. The accelerator is used for electron acceleration. Electrons with energies of 20-40 key can be injected either continuously or in pulses. Uning a combination of addy and radio-frequency fields, a beam energy up to 2MEV can be obtained with this model. Prolimina-Ty results obtained during test runs have shown the high accuracy of the machine and the great stability of its principal magnetic characteristics. Also, in agreement with the theory, a number of various resonances was obserso, in agreement with the theory, a number of various resonances was observed which have a substantial influence on the intensity of the accelerated beam. There are 2 figures and 7 references: 4 Soviet-bloc and 3 non-Soviet-bloc. The references to the English-language publications read as follows: K. Symon, Phys. Rev. 98 (1952), 1152; T. Okhawa; Rev. Scient. Instrum. 29, (1958), 108.

Card 2/2

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24/16/129 Authors	Bonda, F., Gabanete. I., Dobiash, I., Zhuraylay, A. A., Karnasin, M., Kotov, V. I., Marak, M., Myae, E. A., Obukhov, Yu. L., Petukhov, V. A., Svetov, L. V., Sokhor, V., Fukatko, T., and Teirak, Yu.		
TEXT: The with radio institut; Technical Number of Azimuthal	Annular proton synchrotron with radial sectors  : Zhurnal tekhnicheskoy fiziki, v. 31, no. 10, 1961, 1253-1261  s article describes the model of an annular proton synchrotron  l sectors, built and put into operation at the Obygedinennyy redernykh issledcvaniy (Joint Institute of Nuclear Research).  data:  periodicity elements  dimensions of a direct sector  dimensions of an inverse sector  dimensions of the gap  tion factor  addus	* 10	•
		The second secon	د مد د د

The second secon	10	į.
Annular proton synchrotron with  Final radius Vertical dimension of the chamber for the Vertical dimension of the chamber for the Coefficient k for which H = H <sub>0</sub> (r/r <sub>0</sub> ) <sup>k</sup> f(0) Field strength in the initial radius Field strength in the final radius Injection energy Critical energy (total) Final energy (total) The frequencies of free particle oscillat and V <sub>2</sub> ~ 1.8, which are lower than the t can also be used for studying the behavior	ions were found to be $\sqrt{x}$ 3.1 theoretical value. The machine	And the state of t
and $V_Z$ 1.8, which are can also be used for studying the behavior accumulation. A cross-sectional view of secumulation. A pressure of 1 - 2 · 10 - mm Hg Fig. 1. A pressure of 1 - 2 · 10 - mm Hg The injection system is designed both for Acceleration is effected by an electric Acceleration is effected by an electric 10 - 25 v per revolution. A special "sp 600 v per revolution) serves for improving Card 2/2	prevailed in the vacuum chamber.	

#### "APPROVED FOR RELEASE: 06/13/2000

#### CIA-RDP86-00513R000513830001-0

26780 s/057/61/031/0:0/013/015 B111/B112 Annular proton synchrotron with ... The pulse, which is excessively increased by the "speed up" process, is reduced by a thyratron circuit. A constant value of k could be attained with a theoretically calculated crangement of the field coils along the ideal orbit. In addition to the principal coils, a coil was placed at the yoke of each sector, by which the influence of the iron resistance was eliminated. k and the azimuthal field distribution were measured with induction coils and a ballistic galvanometer. With a few exceptions, the values of k agreed with theoretical values to within ±1%. The azimuthal inhomogeneity of the field wan never greater than ±1%. The position of the magnetic surfaces was det rmined with Permalicy feelers with an error of 0.2 mm. The deviation from the theoretical values was never greater than 0.5 mm. The indication of the beam during the first revolutions (without acceleration) was curried out with screens and coordinate nets in the chamber, and later (with acceleration) with photomultipliers equipped with radially adjustable sets of targets. The measurements showed that the field is strongly affected by the induction and "speed-up" core (e.g., azimuthal inhomogeneity). It was found that under optimum conditions, the unward deviation of the hear from the center of the core (e.g., azimuthai innomogeneity). It was sound that didn't opposite conditions, the upward deviation of the beam from the center of the chamber did not exceed ±4 mm, and that the deviation of the equilibrium Card 3/84

S/057/61/031/0 0/033/015

Annular proton synchrotron with ....

S/057/61/031/0 0/033/015

B:11/31:2

orbits at one and the same point of the magnetic field was \_5 =0 per revolution. It is noted that this model can be used to study resonances revolution of accolarated particles on a pure into a betatron syntem, and accommission of accolarated particles. Yu. A. Chernyshov. A. Grachay, and R. M. Fedorev are thanked for accidation. There are 6 figures,:
and R. M. Fedorev are thanked for accidations read as follows: Kri. 7:
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Z/038/63/000/004/005/005 D406/D301

AUTHORS:

Fukátko, Tomáš and Bílek, František

TITLE:

Pulse generator with statistical and linear repeti-

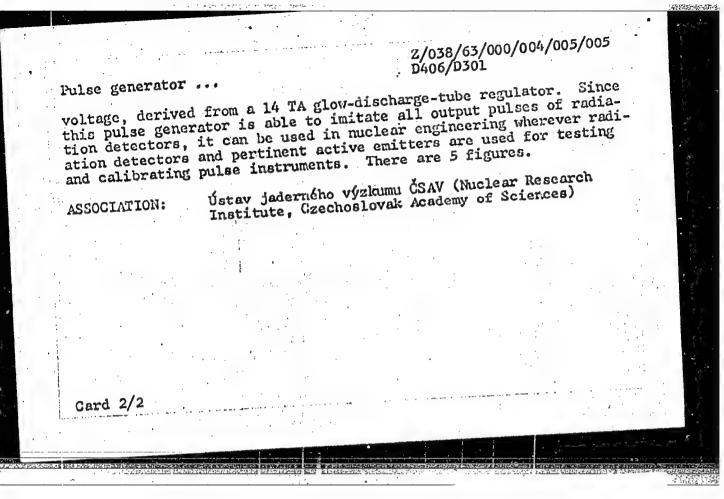
tion rate

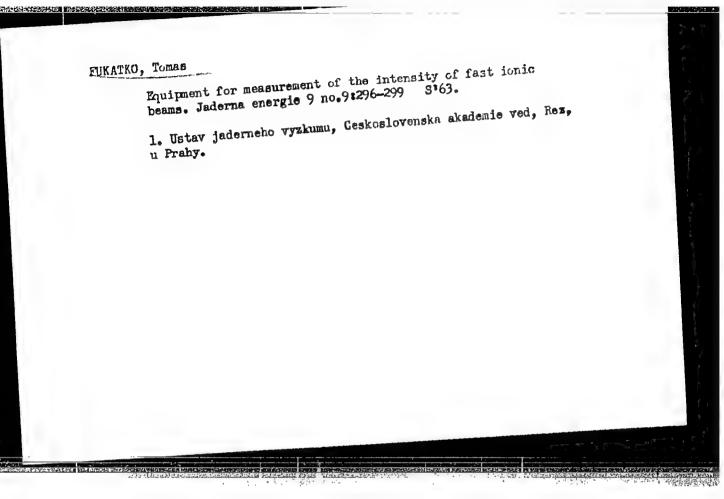
PERIODICAL:

Jaderná energie, no. 4, 1963, 128-130

The Nuclear Research Institute developed and tested a pulse generator with periodic and statistical recurrence frequency which can be used for testing and calibrating pulse integrators, rewhich can be used for testing and calibrating pulse integrators, readucers, etc. This pulse generator consists of (1) the statistical pulse source, a TESLA 1 NA 31 noise diode, a wide-band amplifier and an amplitude discriminator which can also be used as a free-running an amplitude discriminator which can also be used as a free-running and the statistical and has a mulca material and mulca material and has a mulca mul an amplitude discriminator which can also be used as a free-running multivibrator, and has a pulse rate, continuously adjustable in seven ranges from 8 to 5,000 pulses/min; (2) the periodic pulse source ranges from 8 to 5,000 pulses/min; (3) the pulse in six ranges from a few with a pulse rate continuously adjustable in six ranges from a few with a pulse rate continuously adjustable in six ranges from a few to 200,000 pulses/min; (3) the pulse shaping network, a multivibrator, amplifier, and mechanical counter; (4) the electrical supply tor, amplifier, and mechanical counter; (4) the electrical supply system, an electronically regulated 280 V source and a reference

Card 1/2





# 0/0025/64/000/002/0103/0105

ACCESSION NO: AP4037677

AUTHOR: Fukatko, T.; Krivanek, M.; Sebek, Z.

TITLE: Arrangement of measuring probes for adjustment of the cyclotron beam

SOURCE: Kermenergie, no. 2, 1964, 103-105

TOPIC TAGS: Cyclotron, beam, focussing, probe, measurement

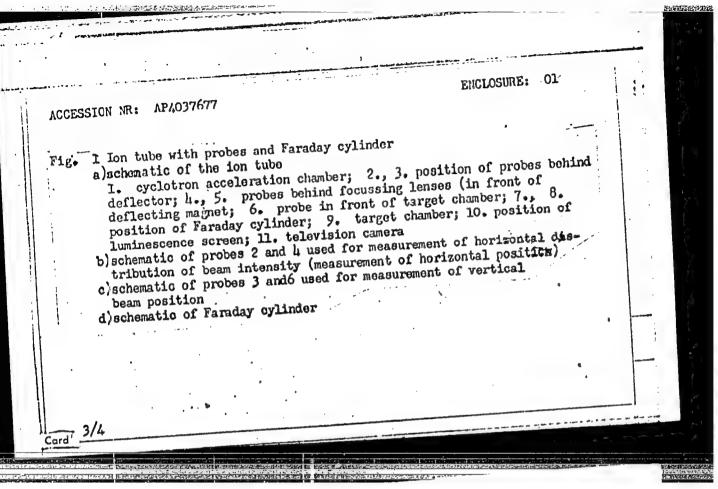
ABSTRACT: A set of probes is described which was built into the ion tube of the Institute's cyclotron. The probes make possible measurement of beam position and intensity in the trajectory from deflector to target chame ber. Figure lof Enclosure I shows the ion tube with probes and faraday Cylinder. The probes are remotely controlled, and the incident current is measured with a special device. A method for the geometric adjustment of the ion tube by means of these probes is described. Orig. art. has; 4 figures.

Card 1/4

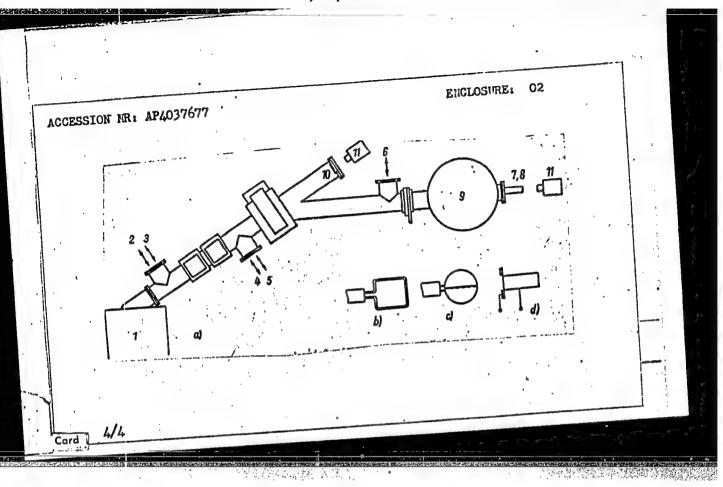
# "APPROVED FOR RELEASE: 06/13/2000

# CIA-RDP86-00513R000513830001-0

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"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000513830001-0



AUTHOR: Fulatko, Tomas; Chyle, Vaclav (Khyle, V.)

AUTHOR: Fulatko, Tomas; Chyle, Vaclav (Khyle, V.)

TITLE: Stabilization of the amplitude of the accelerating voltagee in cyclotrons

SOURCE: Jaderna energie, v.10, no. 10, 1964, 380

TOPIC TAGS: cyclotron

Abstract: Abstract of a research paper describing the stabilization of the amplitude of the accelerating voltage in cyclotrons based on the principle of controlling the high-frequency output fed into a duant circuit and on automatic fine tuning of a 120 kilowatt high-frequency generator. A ± 0.1 stability of the accelerating voltage was achieved.

ASSOCIATION: Jetav jaderneho vyskumu CSAV, Rez (Muclear Research Institute)

SUBMITTED: OO ENGL: OO SUB CODE: NP

NR REF SOV: OOO OTHER: OOO JPRS

KULT, K.; KARMASIN, M.; FUKATKO, T.

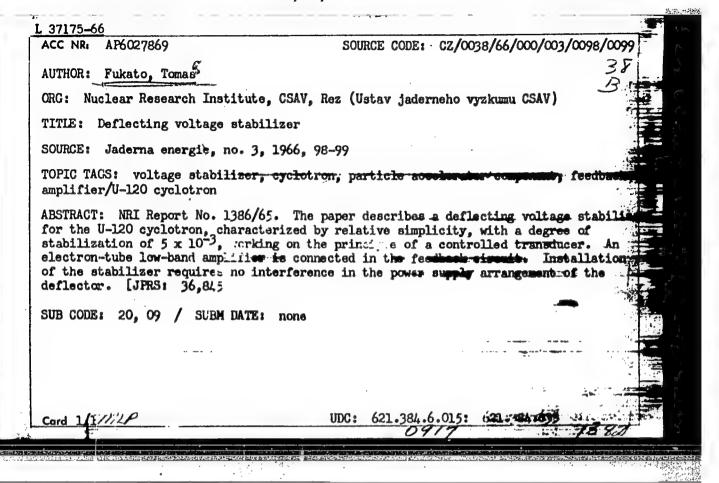
Acceleration of alpha particles on the U-120 cyclotron. Chekhosl fiz zhurnal 14 no. 3:206-209 '64.

1. Nuclear Research Institute, Czechoslovak Academy of Sciences, Rez.

# "APPROVED FOR RELEASE: 06/13/2000

# CIA-RDP86-00513R000513830001-0

L 37232-66 EWT(m) IJP(c)	761
ACC NR. AP(027832 SCURCE CODE: GE/0025/66/009/004/0122/0124	j.
AUTHOR: Firetko, T.	Y F
ORG: Nuclear Research Institute CSAV, Rez, Czechoslovakia TITLE: Stabilization of the deflector voltage in a cyclotron	
1 1066 122-124	b#.
TOPIC TAGS: cyclotron, voltage stabilization, voltage stabilization,	R. C.
stabilizer ABSTRACT: The circuitry, construction, and operation of a voltage stabi-	to Gr
i i com a confirment von described and illustrated by a schematic die	
who device is canable of maintaining deflector voitage stable at	
gram. Inc. device is capacity attachment to or interfering with the power supply. The device is based on the commercial line-voltage stabilizer	
which a but associate manufactured by People-Uwned Enterprise Arthur	
i is a set on man attend aunniamented by a back-coupling component operating	
on the basis of the zero-method. The control voltage is taken from the high-voltage distributor and compared potentiometrically with a stabi-	3
14-ed SG2S type viow-lamp stabilizer. The author thanks v. Layle for the Careful	¥ X
construction of the stabilizer. Orig. art. has: 5 figures. [JPRS]	
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Futel man, L. M.

Insects. Insects USSR / General and Special Zoology. and Arachnids. Chemical Method of Controlling Harmful Insects and Lrachnids.

Abs Jour: Ref Zhur-Biol., No 21, 1958, 95561.

Author

: Fukel'man, L. M. : Moldavian Branch, All Union Institute for Inst

Plant Protection.

: A Colorimetric Method of Determining Hexachloro-Title

cyclohexane in Plants.

Orig Pub: Sb. tr. Moldo sto Vses. in-ta zashchity rast.,

1957, vyp 2, 73-76.

Abstract; A description and verification of the colorimetric method of SHC analysis in plant tissues which was previously used for determination of the quantity of BHC in the intestines of barn

weevils after the seed was treated with this

Card 1/2

29

USBR/General and Special Zoology. Intects. Injurious In- P sects and Ticks. Posts of Truit and Forry Grops

Abs Joan : Pof Zhur - Biol., No 11, 1951, No 49700

Author : Fukol'man L.M.

Inst : All-Union Institute of Plant Cretection, Holdavian

Station

Title : The Determination of Dichtoresthane in the Soil.

Orig Fub : Sb. tr. Hold, et. Vaes, in-ta zachenity ract.,

1957, vyp. 2. 77-80

Abstract: According to an analysis, capocially on the fourth and fifth days, also on the eight-ninth days, after the full still of the soil by dich-lerothame, there was more dichlere theme among the binegard rows where the soil was less packed than in the rows of the bushes. After 20 days there was as little dichlerothame among the rows, as

in the bishes. Twice as much dichlorocthane wis

Card : 1/2

85

# FUKEL'MAN, L.M.

Chromatographic determination of bensene hexachloride in plants. Fiziol.rast. 6 no.6:748-750 N-D '59. (MIRA 13:4)

1. Moldavian Station of All-Union Institute of Plant Protection, Kishinev.

(Benzene hexachloride)
(Plants--Chemical analysis)
(Paper chromatography)

# FUKEL'MAN, L.M.

Chromatographic qualitative and colorimetric quantitative methods of determination of cevine in the green bulk of plants and fruits. Vop. pit. 22 no.2:80-85 Mr-Ap 163.

(MIRA 17:2)

1. Iz khimicheskoy laboratorii (zav. L.M. Fukel'man) Moldavskogo filiala Vsesoyuznogo instituta zashchity rasteniy, Kishinev.

# FUKEL MAN. L.M.

Methods for determining rogor (dimethoate) in preparations in plant tissues and fruits. Trudy VIZR no.20:61-68 pt.4 '64. (MIRA 18:12)

135-58-1-9/23

AUTHORS: Fukel'man, M.L., Tetelis, M.K., and Rossinevich, O.P.,

Engineers

TITLE: Problems of "O'T Type Electrode Welding by Alternating

Current With the Mid of Tapulse Generators. (K voprosu o svarke elektrodami ti a "Oll na peremennom toke pri

pomoshchi generatorov impul'sov)

PERIODICAL: Svarochnoye Proizvodstvo, 1958, Er 1, pp 27 - 28 (USSR)

ABSTRACT: The authors state that experiments carried out at their plant and at the Institute of Electrowelding imeni Ye. O.

Paton, have shown that the application of impulse generators for alternating current welding by electrodes with coatings, which poorly stabilize the arc process, can replace the application of direct current welding. Impulse generators (shown in Figure 2) have good operating proper-

generators (shown in Figure 2) have good operating properties, small size (350 x 300 x 250 mm) and a weight of 26.5 kg. The required power does not exceed 200 watts. Gas thyratrones of TG-1-2.5/4 t pe are utilized for these generators. Two machines of this type have been working

for 1,000 hours under workshop conditions without failure, and the quality of joints is no worse than in welding by direct current. The authors come to the conclusion that

with the aid of impulse generators connected in parallel, it is possible to perform are welding by alternating current

Card 1/2 with UONI-13 and other types of electrodes with coatings

135-58-1-9/23

Problems of UONI Type Electrode Welding by Alternating Current With the Aid of Impulse Generators.

devises for direct current welding. The application of impulse generators ensures stable processes and a reliable re-excitation of the arc. This is a portable device, is light and comfortable, which permits welding at any temperature of the surrounding air. These devices can be recommended for industrial application in various methods of gaselectric welding and for carbon arc welding of nonferrous metals and alloys by alternating current. There is I photo and 2 circuit diagrams.

AVAILABLE:

Library of Congress

Card 2/2

1. Welding-Processes 2. Impulse generators-Applications

25(1)

SOV/135-59-5-17/21

AUTHOR:

Kirichenko, S.I., Engineer, Fukel'man, M.L.

TITLE:

The BEZ-250 Electrode-Holder for Welding Without Discarded

Metal

PERIODICAL:

Svarochnoye proizvodstvo, 1959, Nr 5, pp 40-41 (USSR)

ABSTRACT:

The design of the BEZ electrode-holder (Figure 1) is free of one defect present in usual rod-type holders of its kind. It contains a semi-automatic device for exciting the arc, the necessary arc gap is obtained, reliable contact between the bottom of the holder and the article is achieved and the welder is protected from the flash of the arc. It can be used with a current of 250 amps. a/c or d/c and any type of electrode. Instructions for its use are given. The welder only needs 2-4 hours theory and 1-2 days practice to get used to it. At one plant it can save 650-750 thousand rubles annually, and 200 have already been produced. There is 1 diagram and 1 photo.

Card 1/1

ACCESSION NR: APLO13292

5/0135/64/000/002/0017/0021

AUTHORS: Lebedev, Yu. M. (Engineer); Mel'nik, S. S. (Engineer); Fukel'man, H. L. (Engineer)

TITLE: Automatic fusion of stainless steel on pearlite steel using two wire electrodes

SOURCE: Svarochnoye proizvodstvo, no. 2, 1964, 17-21

TOPIC TAGS: steel, stainless steel, pearlite steel, fusion, welding, two-wire welding, St.3 low carbon steel, SKhL-4 low alloy steel, AK-25 high-strength steel, ADS-1000-2 welder, 48-0F-6 flux, Sv-0khl9NllM3 electrode wire, Sv-0khl8N9F2S2 electrode wire, Sv-0khl8N9F2S2 electrode wire, Sv-0khl8N9F2S2

ABSTRACT: This work was carried out in order to study the automatic deposition of stainless steel on the low-carbon steel St.3, on low-alloy steel SKhL-l<sub>1</sub>, and on high-strength steel AK-25. The purposes of this study were: 1) to determine the technical conditions which would secure minimum fusion of the basic metal; 2) to obtain the chemical composition of the built-up metal as near as possible to that of the electrode wire; 3) to avoid the formation of the undesirable martensite structures. The automatic welder ADS-1000-2 was adapted for this purpose, and two Card 1/3/1

ACCESSION NR: AP4013292

wire electrodes were used simultaneously to build up the metal (under the 48-OF-6 flux). Electrodes made of the following steels were tested: Sv-07Kh25Nl2, Sv-04Kh19Nl1M3, Sv-08Kh16N9F2S2 and Sv-08Kh25N5TMF. It was established that the metal with the highest resistance to corrosion was obtained when the combination of the electrodes produced a built-up metal of austenite-ferrite composition with 3-8% of 6-ferrite. In order to avoid the formation of the martensite structure the chemical composition of the first few built-up layers should be such that the points plotted for it on the structural diagram shown in Fig. 1 of Anclosure would lie to the right of the SK line. Orig. art. has: 3 tables, 8 figures, and 2 formulas.

ASSOCIATION: none

SUBMITTED: 00

DATE ACQ: 26Feb6l

ENGL: O1

SUB. CODE: ML

NO REF SOV: 005

OTHER: 000

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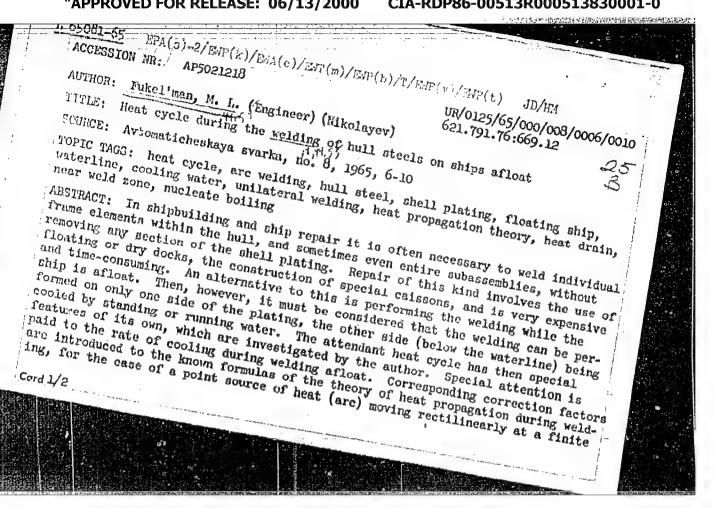
MEL'NIK, S.S., insh.; FUKEL'MAN, M.L., inzh.

Raising the quality of the deposition of coprer and its alloys on low-carbon steel by gas welding. Star.proizv. no.2:23-25 F 64. (MIRA 18:1)

LEBEDEV, Yu.M. (g. Nikolayev); MEL'NIK, S.S. (g. Nikolayev); FUKEL'MAN, M.L. (g. Nikolayev)

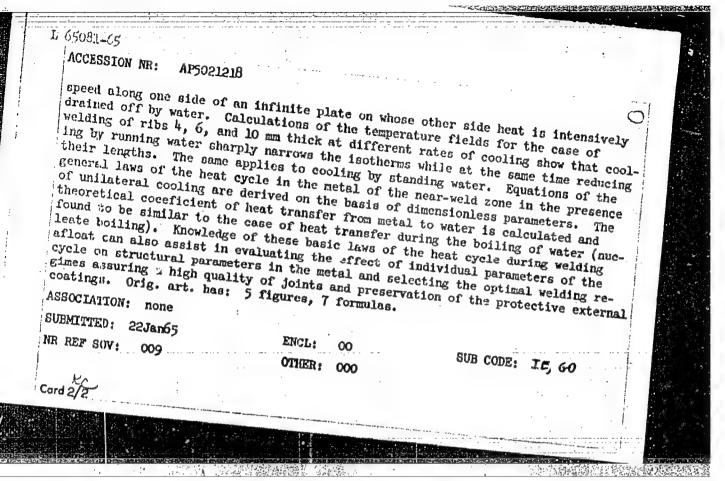
Technology of mechanized hard facing of stainless steel with two wires. Avtom. svar. 17 no.4871-74 Ap :64 (MIRA 18:1)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000513830001-0"



## "APPROVED FOR RELEASE: 06/13/2000

### CIA-RDP86-00513R000513830001-0



L'9535-66 EWT(m)/EWA(d)/EWP(w)/T/EWP(t)/EWP(k)/EWP(m)/EWP(b)/EWA(o) MJW/ACC NRI AP5026292 JC/HM SOURCE CODE: UR/0125/65/000/010/0050/0051

AUTHOR: Hel'nik, S. S. (Engineer; Nikolayev); Fukel'man, M. L. (Engineer; Nikolayev)

ORG: none

37

B

TITLE: Prospects for employing unshielded are welding in shipbuilding

SOURCE: Avtomaticheskaya svarka, no. 10, 1965, 50-51

TOPIC TAGS: unshielded arc welding, shipbuilding engineering, welding electrode, welding technology

ABSTRACT: Since the employment of shielded arc welding in shipbuilding is technically difficult, the authors experimentally investigated the possibilities of the mechanized unshielded welding of hull steel by means of a 1.2 mm EP-439 thick welding wire with welding current of 140-180 a, on using an EIP-7 pulsed attachment in order to reduce the number of defects in the weld metal by causing the transfer of metal from the electrode wire to the molten pool to proceed in the form of smaller drops with a shorter time of transit across the arc column into the molten pool and hence with a reduced saturation of metal by the gases of the air. This technique was experimentally used to weld sections of framing to hull plating and watertight compartments. The resulting weldments were positively evaluated by representatives of the USSR Maritime Registry. Thus, unshielded arc welding with wire electrode may be

Card 1/2

UDC: 621.791.75:629.128

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	v	:			

PUKEL'MAN, M.L. (Nikolayev)

Thermal cycle in welding hull steel structures while ship is afloat. Avtom. svar. 18 no.8:6-10 Ag '65.

(MIRA 18:11)

1. Submitted January 22, 1965.

### "APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000513830001-0

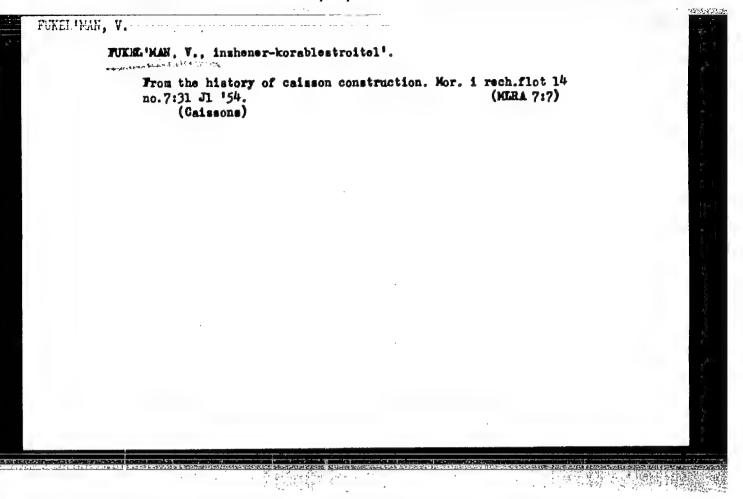
MEL'NIK, S.S. (Nikolayev); FUKEL'MAN, M.L. (Nikolayev)

Prospects for using welding without a protective atmosphere, in shipbuilding. Avtom. avar. 18 no.10:50-51 0 '65.

(MIRA 18:12)

- 1. FUKEL'MAN, V., Eng.
- 2. USSR (600)
- 4. Shipbuilding
- 7. Egorov-Vorob'ev method for making projections of hull plates. Mor. flot 13, No. 4, 1953.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.



LEONT'YEV, Valerian Markovich, inzh.; FROLOV, Nikolay Fedorovich, inzh.; RIMMER, A.I., inzh., retsenzent; FUKEL'MAN, V.L., inzh., retsenzent; KUZ'MENKO, V.K., dots., Lauchnyy red.; STOLYARSKIY, L.L., inzh., nauchnyy red.; FRUMKIN, P.S., tekhn. red.

[Technology of shipbuilding and ship repairs] Tekhnologiia sudostroeniia i sudoremonta. Leningrad, Gos. soiuznoe izd-vo sudoztroit. promyshl., 1961. 435 p. (MIRA 15:2)

1. Predmetnaya komissiya Nikolayevskogo sudostroitel'nogo tekhnikuma (for Fukel'man). (Shipbuilding) (Ships-Maintenance and repair)

FUKEL'MAN, Viktor Leonidovich; KHOLODILIN, A.N., kand. tekhm.
nauk, retsenzent; PANKOV, V.A., nauchn. red.; KAZAKOV,
Yu.S., red.

[Theory of ships and the principles of hydromechanics] leoriia korablia s osnovami gidromekhaniki. Leningrad, Izd-vo "Sudostroenie," 1964. 349 p. (MIRA 17:6)

FUKI A.

USSR/Cultivated Plants. Potatoes. Vegetables. Melons.

M

Abs Jour: Ref Zhur-Biol., No 5, 1958, 20317.

Author : A. Fuki.

Inst Stayrong

: Stavropol' Agricultural Institute.

Title : The Effect of pH Quantity on the Condition of Potato Tubers.

(Preliminary Report). (Vliyaniye velichiny pH na sostoyaniye

klubney kartofelya ((Predvaritel'noye soobshcheniye)) ).

Orig Pub: Sb. nauchno-issled. rabot stud. Stavropol'sk. s.-kh. in-ta,

1956, vyp. 4, 50-52.

Abstract: In a laboratory test where the pH factor of the nutrient

substance was 7.4, better conditions were established for the sprouting of Cornwall variety potato tubers in sandy culture. After winter storage the pH factor of degenerated tubers was 5.8, and of the non-degenerated ones 6.1.

Card : 1/2

USSR/CUITIVATED FOR RELEASE: 06/13/2000 Welchs-RDP86-00513R000513830001-0"

Abs Jour: Ref Zhur-Biol., No 5, 1958, 20317.

Remark by the reviewer. No references are given to the method used, particularly to repeating the test.

Card : 2/2

Fuil, a.D.

Epidemiology of water fever. Sovet. med. 16 no.3138-39 Mar 1952.

(OIML 22:1)

1. Krasnodar.

USSR/Medicine - Leptospirosis

FD-554

Card 1/1

Pub. 148 - 17/23

Author

FUHI, A. D.

: Fuki, A. D.

Title

A model for experimental non-icteric leptospirosis

Periodical

: Zhur. mikrobiol. epid. i immun. 6, 52-54, Jun 54

Abstract

: There is a detailed description of the conditions necessary for the successful use of suckling and weanling rabbits as models for nonicteric leptospirosis. Freshly isolated strains of L. "Monyakov" and L. grippotyphosa were found to be pathogenic for rabbits weighing from 150 to 500 grams. The disease in rabbits infected with types I and II Leptospirae followed the usual clinical course, jaundice appeared, and death occurred. Postmortem examinations revealed the characteristic pathologicoanatomical changes in the internal organs. No references

are cited.

Institution :

The Krasnodarsk Institute of Epidemiology and Microbiology and the

Krasnodarsk Kray Sanitary-Epidemiological Station

Submitted

: August 14, 1953. The paper was presented at a meeting of the Krasnodarsk

Kray Department of the Society of Microbiologists, Epidemiologists,

and Infectionists on November 28, 1951.

ZUBKOVA, R.I., MUKI, A.D.

Data on the occurrence of Q fever in Krasnodar Territory. Zhur. mikrobiol. epid. i immun. no.6:23-28 Je '55. (MLRA 8:9)

1. Iz otdela rikketsiozov (zav.-prof. P. F. Zdradovskiy) Instituta epidemiologii i mikrobiologii imeni N.F. Gamalei AMN SSSR (dir.prof. G.V.Vygodchikov) i Krasnodarskoy krayevoy sanitarno-epidemiologicheskoy stantsii (glavnyy vrach A.I. Bandur') (Q FEVER, epidemiology, in Russia)

FUKI, A. D., and ZUBKOVA, R. I.

"Date on the Spread of Q Fever in Drasnogradskiy Kray." Proceedings of of Inst. Epidem and Microbiol im. Gamaleya 1954-56.

Division of Rickettsiosis, Zdrodovskiy, P. F., Active Member of Academy of Medical Sciences USSR, Professor, head, Inst. Epidem and Microbiol im. Gammaleya AMS USSR

SO: Sum 1186, 11 Jan 57.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000513830001-0"

KUIAGIN, S.M.; FUKI, A.D.; ZUBKOVA, R.I.; POPOVA, L.D.

Result of double vaccination against Q fever. Zhur. mikrobiol. epid. 1
immun. 29 no.11:25-29 N '58. (MIRA 12:1)

S/137/62/000/003/033/191 A006/A101

AUTHORS: Eygeles, M. A., Leviush, I. T., Fuki, I. V.

TITLE: Concentration of beryllium ores

PERIODICAL: Referativnyy zhurnal, Metallurgiya, no. 3, 1962, 11, abstract 3G77

(V sb. "Issled. po obogashcheniyu i tekhnol, polezn, iskopayemykh",

Moscow, Gosgeoltekhizdat, 1961, 115-123)

TEXT: Some fundamentals are presented on the technological classification of Be-ores according to a series of features characteristic for their concentration technology (the size of disseminations of Be-minerals, the mineralogical shape of Be, the composition of valuable minerals, the substantial composition of the ore mass). The concentration of beryllium ores was developed in two directions: the acid method and the alkaline method. Both these methods are based on the depression of dead rock minerals and the activation of beryllium flotation. An advantage of the acid method is the considerable activation of beryllium by HF and the possibility of obtaining separately mica, quartz and fluorspar products. A deficiency of this process is the necessity of double flotation of the basic ore mass in a strongly acid medium. In the alkaline

Card 1/2

S/137/62/000/003/033/191 A006/A101

Concentration of beryllium ores

method, Na2S is used as a selectively acting depressor, which makes it possible to depress, in one procedure, the basic dead rock minerals. Beryllium flotation can be intensified by the following means: a) processing the pulp by the collector during its heating to 80 - 85°C and b) removing multivalent cations during the softening of water. A method of flotating beryllium ore without preheating the basic pulp mass was developed under laboratory conditions. The basic flotation is carried out at room temperature with oleic acid. Na2S is used as a depressor. The basic flotation concentrate is processed with Na2S, heated and refined once or twice. The results of concentration obtained from both acid and alkaline methods are similar. Concentration of micaceous ores is complicated by the introduction of additional fluorite and actinolite cycles of flotation and repeated refining with preheating of the pulp. An additional cycle of talcum flotation is introduced prior to the processing with reagents, to remove easily flotated talcum and talcum rocks. Methods of concentration ability tests are presented.

A. Shmeleva

[Abstracter's note: Complete translation]

Card 2/2

KUZHETS, M.M., prof. [deceased]; BOGDAHOVICH, S.N., dotsent; LEVKOVSKIY, N.M., kand. med. nauk; SEMENOVA, V.N.; GLUKHEN'KIY, B.T.; FUKI, M.M.; OSADCHIY, Ye.D.; BARABASH, M.Ye.; VIL'CHINSKIY, S.P.; VITER, I.S.; VOROETS, I.F.; GRABOVSKAYA, R.A.; RAKHMATULLINA, M.G.; SALOVA, G.V.

Treatment of lupus eruthermatosus with phthivazid. Vrach. delo no.4: 373-378 Ap '59. (NIRA 12:7)

1. Kiyevskiy meditsinskiy institut. (LUPUS)(ISONICOTINIC ACID)

# Study of the characteristics of opposing a two-cycle engine with pressure charging. Trudy LKI no.26:183-203 '59. (MIRA 14:9) 1. Kafedra sudovykh dvigateley vnutrennego sgoraniya Leningradskogo korablestroitel'nogo instituta. (Superchargers)

# "APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000513830001-0 FUKI, V.B. Capacity of the blood to thrompogenesis in included disease and its change following anticoagulant therapy. (MIRA 18:9) Capacity of the blood to thrombogenesis in ischemic cardiac Kardiologiia 5 no.1:46-49 Ja-F '65. 1. Kafedra gospital'noy terapii (zav. - prof. M.N. Tumancvskiy) Voronezhskogo meditsinskogo instituta.

CIA-RDP86-00513R000513830001-0" APPROVED FOR RELEASE: 06/13/2000

S/190/61/003/001/011/020 B119/B216

AUTHORS:

Smolyan, Z. S., Grayevskiy, A. I., Demin, O. I., Fukin, V. K.,

Matveyeva, G. N.

TITLE:

Card

Certain rules on polymerization of ethylene on heterogeneous

catalysts

PERIODICAL: Vysokomolekulyarnyye soyedineniya, v. 3, no. 1, 1961, 81-83

TEXT: The authors point out the fact that the catalysts of the type TiCl<sub>4</sub> plus organometallic alkylating agent used for the preparation of low-pressure polyethylene rapidly lose their high activity in the course of the reaction, dropping to one sixth of the initial activity within 30 to 40 min. The present work attempts to find the causes for this drop in activity. Experiments were carried out on polymerization of polyethylene on catalysts of the systems TiCl<sub>4</sub> + AlR<sub>3</sub> (Al(C<sub>2</sub>H<sub>5</sub>)<sub>2</sub>Br, AlC<sub>2</sub>H<sub>5</sub>Cl<sub>2</sub>, Al(C<sub>2</sub>H<sub>5</sub>)<sub>2</sub> OC<sub>2</sub>H<sub>5</sub>, Al(C<sub>2</sub>H<sub>5</sub>)<sub>3</sub>, AlC<sub>2</sub>H<sub>5</sub>Cl(OC<sub>2</sub>H<sub>5</sub>) and other compounds). Polymerization was performed in an autoclave at 60°C and a pressure of 4 atm. abs. Individual

Certain rules on polymerization of ...

S/190/61/003/001/011/020 B119/B216

catalysts were prepared by mixing the components under argon in a special thermostat and kept there for use. Catalyst activity was determined from the initial polymerization rate and, with the same results, from the polyethylene yield. It was found that the activity of all the catalysts is low at the very outset but increases to a maximum within 4 to 5 min and then drops to practically zero within another 20 to 30 min. The same effect was observed on catalysts removed from the argon atmosphere and placed in the reaction vessel in the absence of ethylene for polymerization. The authors found that the activity of a catalyst of the type under study depends on the concentration ratio of Ti and Ti (low initial activity due to the sole presence of Ti , maximum activity on reaching the optimum Ti : Ti tratio, followed by decrease with increasing Ti content). Further experiments showed that the optimum Ti Ti tratio and thus also the maximum activity may be maintained constant by careful addition of a corresponding quantity of oxilizing agent (to reoxidize excess Ti).

Air and 02, respectively, were used as oxidizing agents. There are 3 figures and 3 non-Soviet-bloc references.

Card 2/

ACCESSION NR: AT4012866

\$/3060/63/000/000/0029/0037

AUTHOR: Kruglov, A. I.; Fukin, V. N.

TITLE: Electrode erosion as a function of the current pulse form

SOURCE: AN SSSR. Tsentr. n.-i. lab. elektr. obrabotki metallov. Elektroiskrovaya obrabotka metallov. Moscow, 1963, 29-37

TOPIC TAGS: electroplating, electrode, electrode erosion, pulse form dependence

ABSTRACT: In most work dealing with the erosion characteristics of metals under the influence of low-voltage pulse discharges in a liquid dielectric medium, the energy and duration of the pulse have been regarded as the fundamental pulse parameters. There is almost no work on the effect of the form of the pulse fed to the spark gap. The authors criticize the hypothesis of S. V. Divers (Spark machining. - Aircraft Production, 1961, 23, no. 12), claiming that his work lacks an experimental analysis of the effect of pulses of varying form, with the result that his conclusions are unsubstantiated. The major part of this article deals with preliminary findings on the effect of pulse form on electrode erosion. The authors designed a laboratory set-up for their experiments which consists principally of a pulse generator, a lab-type electroerosion unit with automatic feed control and

ACCESSION NR: AT4012866

a working-pulse counter. Figure 1 in the Enclosure illustrates the dependence of the intensity of erosion of copper electrodes on the time shift Tof a short (duration: 1.5 microsec., amplitude: 400 amps) pulse with respect to the leading edge of a long (duration: 20 microsec., amplitude: 60 amps) pulsé. As the delay T in the arrival of the short pulse is increased, cathode and anode erosion increases, reaching a maximum at ? = || microsec. With further increase in delay, the erosion value falls off somewhat. The authors state that the results cannot be interpreted on the basis of the hypothesis of additive laws of material ablation during the effect of a unit pulse, as proposed by Divers, E. M. Williams, (Theory of electric spark machining. - Electr. Engng, 1952, v. 71, no. 3) and others. Rather, they lend themselves to an explanation in line with the theory developed in the work of B. N. Zoloty\*kh (Fizicheskiye osnovy\* elektroiskrovoy obrabotki metallov. Gostekhteoretizdat, 1953) who regards erosion as the result of the processes of heat propagation under the effect of the plane sources which form on the anode and cathode because of the energy coming from the discharge channel. Orig. art. hest / 14 formules and 5 figures.

ASSUCIATION: Tsentral'neya n.-i. laboratoriya elektricheskoy obrabotki metallov AN SSSR (Central Scientific Research Laboratory for Electrical Machining of Metale

Card 2/11-2

FUKKER, F.; RUSZNAK, I.; KRALIK, I.

Polarographic determination of the methyleneblue number of regenerated celluloses of high carboxyl content, by the suppression of oxygen maxima. In German. p. 59. (Acta Chimica, Vol. 9, No. 1/4, 1956, Budapest, Hungary)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 8, Aug 1957. Uncl.

FUKKER, J.

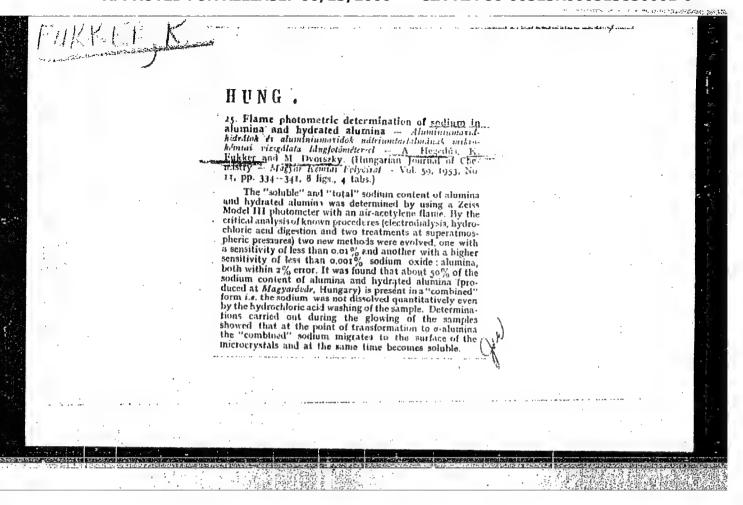
TECHNOLOGY

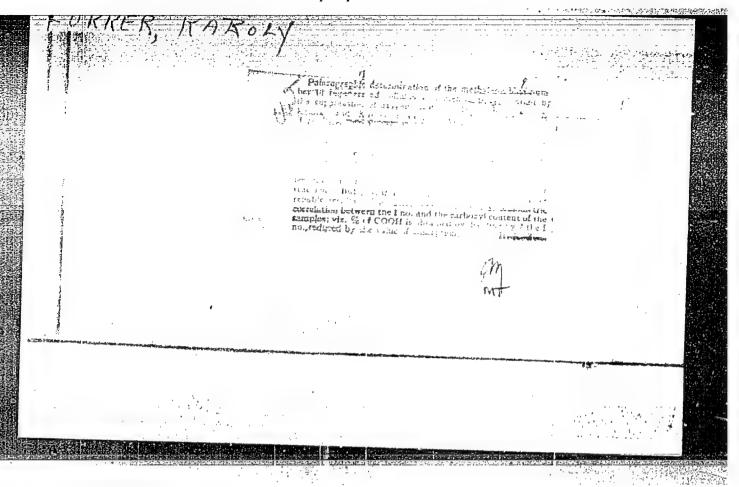
Periodical: MAGYAR TEXTILTECHNIKA Vol. 11, no. 1, Jan. 1959

FUKKER, J. Determinatin of the concentration of certain dyes by means of the Karl Fisher solution. pl 4.

Monthly List of East European Accessions (EEAI) LC, Vol. 8, No. 5, May 1959, Unclas:

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000513830001-0"





FUKKER, 11.

HUNGARY/Physical Chemistry - Electrochemistry

B-12

Abs Jour

: Ref Zhur - Khimiya, No 7, 1958, 20801

Author

: I. Rusnak, K. Fukker, I. Krakik.

Inst

: Academy of Sciences of Hungary.

Title

: Polarographic Study of High Molecular Substances by

Maximum Supression Method.

Orig Pub

: Acta chim. Acad. sci. hung., 1958, 9, No 1-4, 49-57

Abstract

: A more detailed report on work published earlier

(RZhKhim, 1956, 54683).

Card 1/1

#### CIA-RDP86-00513R000513830001-0 "APPROVED FOR RELEASE: 06/13/2000

COUNTRY : Hungary B~1.2 CATEGORY ABS. JCUR. : RZKhim., No. 14 1959. No. 43901 ROFTUA : Rusznak, I., Kralik, I., and Fukker, K. INST. : Not given : Theory and Application of Polarographic Moxima TITLE Suppression. IV. Determination of the Molecular Weight of Basic ovestuffs. V. Relationship : Z phys Chem (EHD), 17, No 1-2, 56-50; 61-67 (1959) ORIG. PUB. Magyar Kem Folyotrat, oh, No 10, 597-400,\*\* ABSTRACT · IV. The authors have investigated the effect of the following dyestuffs (D) on the polarographic maximum (M) in the  $C_2$  wave in  $G_1002\ N$ OH, GOOR: rhodamine, methylene blue, fuchain, auramine, and metnyl violet. Equipolar solutions of D suppress M in equal degrees; solutions of D at equal weight concentration suppress M in inverse proportion to the molecular \* Between Molecular Weight of the Celiulose Diacetate Monophthalate Fraction and the Capacity of Alkaline Colutions of the Latter to Suppress Polarographic Maxima

#### APPROVED FOR: RELEASE: >06/13/2000 CIA-RDP86-00513R000513830001-0"

48901

CATEGORY

ABS. JOUR.: RZKhim., No. 14 1959, No.

AUTHOR INST. TITLE

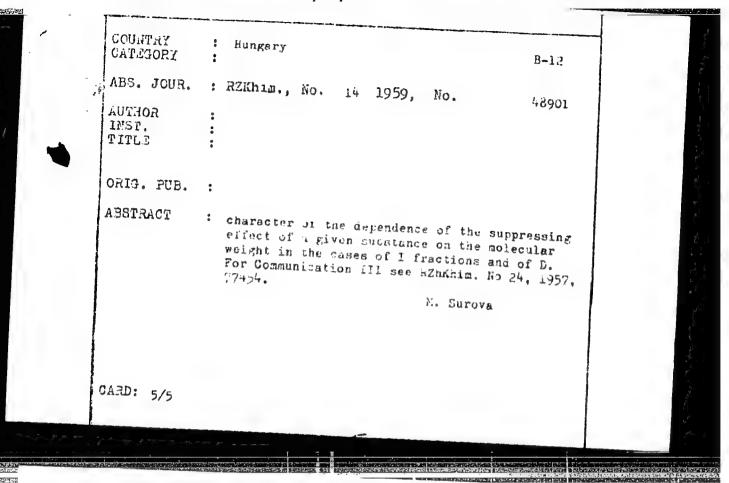
ORIG. PUB. :

ABSTRACT

weight of the D. In the region of P concentrations corresponding to a decrease in M to 50% of its initial value, a linear relationship is observed between the height of the M and the molecular weight of the D at equal weight concentrations of D. The latter observation has been utilized in the development of a procedure for the determination of the molecular weight of the D (accuracy + 4%).

CARD: 25

COUNTRY Hungary CATEGORY B-12 ABS. JOUR. : RZKhim., No. 14 1959, No. 48901 AUTHOR IMST. TITLE ORIG. PUB. : ABSTRACT height of the M and the molecular weight (at equal weight concentration of I). With increasing concentration of I the neight of M decreases, at first rapidly, then at a slower rate. In the case of solutions containing equimolar amounts of I fractions, the fraction with the higher molecular weight has a stronger suppressing effect on M, the dependence of the height of M on the molecular weight being nonlinear. The authors note differences in the CARD: 4/5



FUKKEL K.

Science

"MAGYAR KEMIAI FOLYCIRAT"

Investigations by means of polarographic maximum suppression. IV. Determination of the molecular weight of basic dyestuffs. V. Relationship between the molecular weight and the polarographic maximum suppression of the alkaline colutions of calinlese-diacetate-monophthelate fractions. p. 397

Vol. 64, No. 10, Cet. 1958

Monthly List of East European Accessions (E FI), LC, Vol. 3, No. 4, April 1959 Unclas.

COUNTRY Hungary CATEGORY

H-34

ABS. JOUR. : RZKhim., No.

1959, No. 88795

AUTHOR

: Rusznak, I.; Fukker, K.; Lay, M.

INST. TITLE

Determination of the Concentration of Individual Dyestuffs with Karl Fischer

Solution

ORIG. PUB.: Magyar textiltechn., 1959, 11, No 1, 4-6

: An indirect method has been worked out for ABSTRACT determining the absolute concentration of basic dyes by titration of the water that is formed (or used up) in the reaction between the dyestuff being analyzed and Karl Fischer solution. For 5 basic dyes, results are presented of comparative analyses conducted in accordance with the new method and by the conventional procedure; mean error of 14 determinations does not exceed 1.4%.

S. Rozenfel'd

CARD:

RUSZNAK, I.; KRALIK, I.; FUKKER, K.

Theory and possible use of the suppression of polarographic maxima. VI. Studies of the condensation reactions and of the kinetics of reactions of macromolecular substances. Coll Cz Chem 26 no.3:645-649 Mr '61. (EEAI 10:9)

1. Forschungsinstitut für die Textilindustrie und Institut für praktische Chemie, Technische Universität, Budapest, Ungarn.

(Polarograph and polarography) (Macromolecular compounds)

5/081/62/000/017/062/102 B158/B186

AUTHORS:

Millner, Tivadar, Fukker, Karoly, Martin, Kornél,

Dvorszky, Magda

TITLE:

Procedure for producing alumina of high electric insulating

capacity

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 17, 1962, 383, abstract

17K258 (Hungarian patent 148074, March 31, 1961)

TEXT: A coating of corundum is used for insulation of heating coils (for instance, an electron tube) at high temperatures. The authors have found that the electric insulating capacity of this coating is considerably improved if it is introduced as pure a-corundum and burnt in a neutral, but preferably in a reducing, atmosphere. Pure alumina, burnt at 1050°C, is used as raw material. The powder is burnt in a tubular furnace (thermal response to 1500°C - 1 hr, holding at 1550°C - 3 hours, cooling to 1100°C - 1 hour). The alumina must be burnt in a stream of hydrogen, nitrogen, or a mixture of these or any other gas in vacuum. The product is ground in a ball mill with the addition of 0.1% steatite. A film obtained Card 1/2

Procedure for producing alumina...

S/081/62/000/017/062/102 B158/B186

from this powder by already well-known methods (for example, electrophoresis) is applied to tungsten coils. The electric insulating capacity of such a film is demonstrated by the fact that among 10 electron tubes incandesced for 1000 hours no breakdown was observed, whereas in the same period of time 6 breakdowns occurred with the same type of lamp using a film-coated coil prepared by an old method. [Abstracter's note: Complete

Card 2/2

FUKLEY V. H.

Author: Fuklen, V. A.

Title: The Milled Carbon pig-iron from cupola furnace. (Molougherodistyi

City: Moscow Publisher:

Echtheriter State Printing House of the Machine Consturction Literature

Date: 1950

Available: Library of Congress

Source: Monthly List of Russian Accessions, Vol. 3, No. 12, p. 638

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000513830001-0"

USSR/Metallurgy - Foundry, Equipment
Materials

"Graphite Lining of Ladles for Desulfurization of Cast
Iron," V.A. Fuklev, Cand Tech Sci

"Litey Proizvod" No 7, p 10

Describes expts for using graphite lining, instead of
expensive magnesite and dolomite, in ladle for desulfurization of cast iron designated for steelmaking
process in side-blown converters in case when proper
B conen could not be maintained in cupols. Graphite
mass contained 50-70% of ground graphite ore, 22-42%
of quartz sand, and by of bentonite, having moisture
content in 8-10% range. Service length of lining:
about 40 hrs.

USER/Metallursy - Foundry, Equipment  The Thyere for Delivering Oxygen Into the Forehearth  of a Cupola, "V.A. Puklev, Cand Tech Sci, M. A.  Thebarov, Engr  If They Proizvod" %0 9, pp 24, 25  "Litey Proizvod %0 9, pp
Forehearth sci, M. A. hearth med and in- med and in- pesign per- ir, replac- ir, replac- ir, replac- ir, replac- ir, seplac- ir, replac- i

FUKLEY, V.

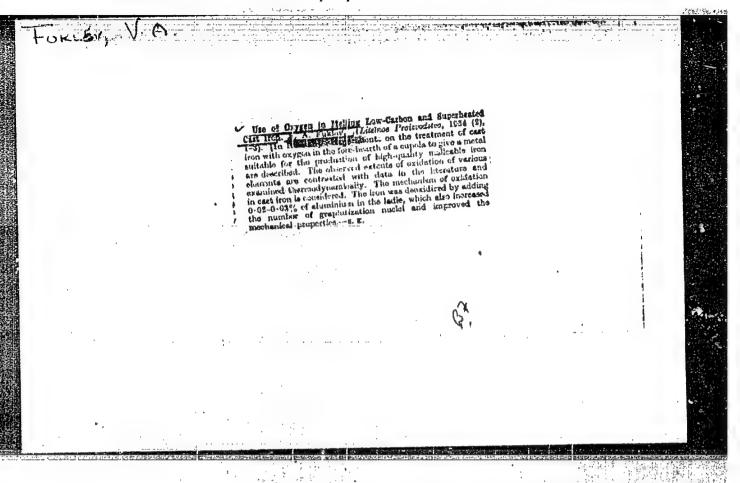
"Vessels with Graphite Lining for Desulfurizing Iron." Tr. from the Russian. p.102 (PRZEGLAD ODLEWNICTWA Vol. 3, no. 3, March 1953 Krakow, Poland)

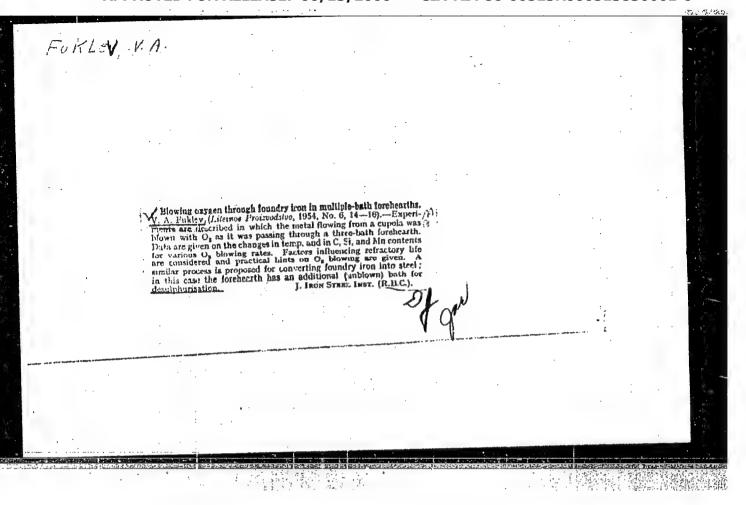
SO: Monthly List of East European Accessions, LC, Vol. 3, no. 5, May 1954/Uncl.

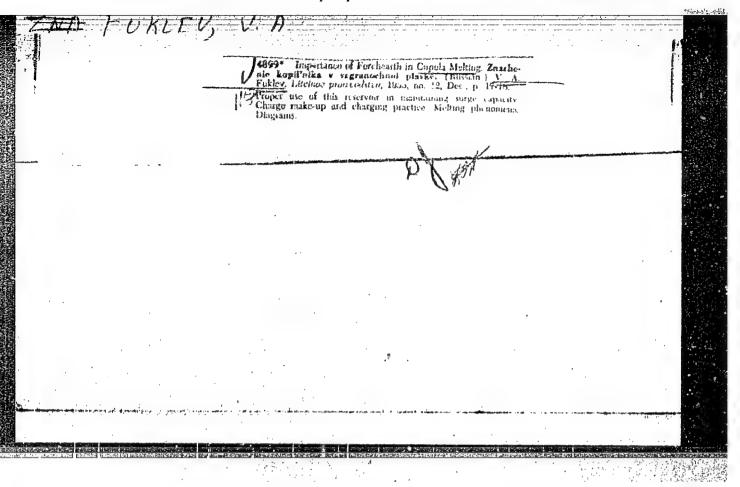
TURBOVSKIY, M.M.; FUKLEY, V.A.

Graphite lining mixture for steel castings. Lit.proixv. no.6:28-29 Je '53. (MLRA 6:7)

(Foundry supplies)





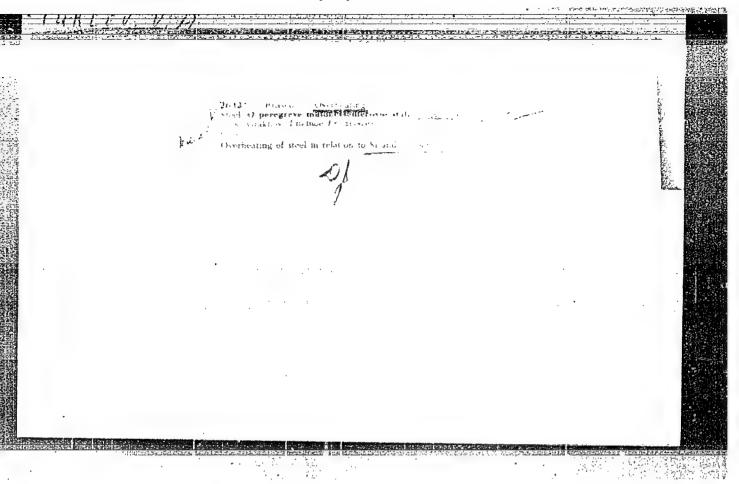


FUKLEY, Valentin Androyevich: KOGAN, S.M., redaktor; RAKHMATULLIN, F., tekhnicheskiy redaktor

[Oxygen blasting of white cast iron in the forehearth of a cupola furnace; practice of the "Tashsel'mash" and "Uzbeksel'mash" plants] Produvka belogo chuguna kislorodom v kopil'nike vagranki; is opyta zavoda "Tashsel'mash" i "Uzbeksel'mash". Tashkent, Cos. izd-vo Uzbekskoi SSR, 1956, 54 p. (MIRA 10:6) (Cast iron--Metallurgy) (Cupola furnaces)

Using removable tuyeres for feeding oxygen to the forehearth.
Lit. proizv. no.8:4-5 Ag '56. (MLRA 9:10)

(Cupola furnaces)



#### "APPROVED FOR RELEASE: 06/13/2000 CIA-RDP

CIA-RDP86-00513R000513830001-0

SOV/137 59-2-2364

Translation from: Referativnyy zhurnal. Metallurgiya, 1959. Nr 2. p 20 (USSR)

AUTHOR: Fukley, V. A.

TITLE: Reaction Heat of Oxidation of Some Elements During the Blowing of

Oxygen or Air Through Molten Metal (Teplota reaktsii okisleniya neko torykh elementov pri produvke zhidkogo metalla kislorodom ili voz

dukhom)

PERIODICAL: Tr. Sredneaz. politekhn. in-ta, 1957. Nr 4. pp 201-215

ABSTRACT: Equations for the reaction heats of oxidation of Fe. Mn Si. and C

in relation to the temperature were developed according to data on the specific heats, heats of solution, and heats of phase transformations.

I. T.

Card 1/1

18(3) AUTHORS:

Fuklev, V. A., Grakhov, L. K.

SOV/163-59-2-15/48

TITLE:

On the Problem of Overheating of Steel in Side Blown Bessemerizing (K voprosu o peregreve stali pri malom

bessemerovanii)

PERIODICAL:

Nauchnyye doklady vysshey shkoly. Metallurgiya, 1959, Nr 2,

pp 78-83 (USSR)

ABSTRACT:

In the process mentioned in the title, the temperature rise due to oxidation of silicon is about 2 to 2 1/2 times higher than the one caused by carbon combustion. This is explained by the fact that the silicon fully oxidizes in the liquid metal phase and emits its heat to the latter, whereas the carbon in the metal only partially oxidizes, and burns to CO<sub>2</sub> only outside the metal. Thus, the oxidation of Si is de-

cisive for the temperature of the metal. The course of the gas temperature during the blowing of the side blown converter - shown in figures 1 and 2 - proves that the gas cannot cause an overheating of the tank. The authors advocate such overheating since it considerably shortens the blowing period (Fig 3), attaining a better utilization of the oxygen blown in. The habit of economizing ferrosilicon in practice is

Card 1/2

SOV/163-59-2-15/48 On the Problem of Overheating of Steel in Side Blown Ressementizing

criticized. In this case, the required temperature is only attained by the burn-up of iron, for which purpose 8 times more iron than silicon is necessary. Maximum efficiency is attained by high overheating, good utilization of the oxidation reactions of silicon and carbon, optimum utilization of the wind oxygen, and a minimum burn-up of iron. There are 3 figures and 4 references, 3 of which are Soviet.

ASSOCIATION: Sredneaziatskiy politekhnicheskiy institut

((Soviet) Central Asia Polytechnic Institute)

SUBMITTED: August 28, 1958

Card 2/2

18(5)

507/128-59-6-8/25

AUTHOR:

Grakhov, L.K., and Fuklev, V.A., Candidates of Techni-

cal Sciences

TITLE:

Some Aspects of the Side-Blown Bessemer Process

PERIODICAL:

Liteynoye Proizvodstvo, 1959, Nr 6, pp 20-22 (USSR)

ABSTRACT:

Scientific studies have shown that Pessemer steel comes very close to or even surpasses with its properties the Siemens Martin steel and electric steel. This is indicated too by the considerable attention given to Bessemer steel during recent years. (The authors quote an article by S.E. Smith and J.E. Loy in "Plast Furnace and Steel Plant", March 1950). The specific specialties of the "baby Bessemer process" consist of blowing air at the surface of the converter or at an insignificant depth (but not from the bottom). The author compares the English experiments ("Journal Of Iron And Steel Institute", January and February 1947) and the Soviet experiments (Grakhov, I.K., Doctor thesis, 1955), both arriving at the same con-

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SOV/128-59-6-8/25

Some Aspects of the Side-Blown Bessemer Process

clusions about the "baby Bessemer process" with regard to the absorption of oxygen. The type of blowing is the basic factor of the baby Bessemer process. A similar role plays the intensity of the blowing method This is especially the case during the start of the melting process when there is not yet a "boiling Process" in the converter. The results of the experiments are listed by means of 5 graphs. Conclusion: It is the intention of the whole process to create the conditions for an intensive oxydation of the carbon and for a boiling of the contents of the converter during the longest possible priod of time. (Remark of the editors office:The so-called "boiling" (caused by the oxydation of the carbon) shall not be regarded as an independent factor). There are 5 graphs, and 9 references, 7 of which are Soviet and 2 English

Card 2/2

FUKLEY, V.A.

zav.; chern.met. no.7:60-67 '60.

Continuous metal blowing by oxygen in the trough. Izv.vys.ucheb. (MIRA 13:8)

1. Sredneaziatskiy politekhnicheskiy institut.
(Open-hearth process)
(Oxygen--Industrial applications)

FUKLLY V.A.

PHASE I BOOK EXPLOITATION

80V/5556

Moscow. Institut stali.

Novoye v teorii i praktike proizvodstva martenovskoy stali (Nev [Developments] in the Theory and Practice of Open-Hearth Steelmaking) Hoscov, Metallurgizdat, 1961. 439 p. (Series: Trudy Hezhvuzovskogo nauchnogo soveshchaniya) 2,150 copies printed.

Sponsoring Agency: Ministerstvo vysshego i srednego spetsial'nogo obrazovaniya RSFSR. Hoskovskiy institut stali ineni I. V. Stalina.

Eds.: M. A. Glinkov, Professor, Doctor of Technical Sciences, V. V. Kondakov, Professor, Doctor of Technical Sciences, V. A. Kudrin, Docent, Candidate of Technical Sciences, G. N. Oyks, Professor, Doctor of Technical Sciences, and V. I. Yavoyskiy, Professor, Doctor of Technical Sciences; Ed.: Ye. A. Borko; Ed. of Publishing House: N. D. Gromov; Tech. Ed.: A. I. Karasev.

PURPOSE: This collection of articles is intended for members of scientific institutions, faculty members of schools of higher education, engineers concerned with metallurgical processes and physical chemistry, and students specializing in these fields.

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New [Developments] in the Theory (Cont.)

BOV /5556

COVERAGE: The collection contains papers reviewing the development of openhearth steelmaking theory and practice. The papers, written by staff members of schools of higher education, scientific research institutes, and main laboratories of metallurgical plants, were presented and discussed at the Scientific Conference of Schools of Higher Education. The following topics are considered: the kinetics and mechanism of carbon oxidation; the process of slag formation in open-hearth furnaces using in the charge either ore-lime briquets or composite flux (the product of calcining the mixture of lime with bauxite); the behavior of hydrogen in the open-hearth bath; metal desulfurization processes; the control of the open-hearth thermal melting regime and its automation; heat-engineering problems in large-capacity furnaces; aerodynamic properties of fuel gases and their flow in the furnace combustion chamber; and the improvement of high-alloy steel quality through the utilization of vacuum and natural gases. The following persons took part in the discussion of the papers at the Conference: S.I. Filippov, V.A. Kudrin, M.A. Glinkov, R.P. Nam, V.I. Yavoyskiy, G.B. Oyks and Ye. Y. Chelishchev (Moscow Steel Institute); Ye. A. Kazachkov. and A. S. Kharitonov (Zhdanov Metallurgical Institute); N.S. Mikhaylets(Institute of Chemical Metallurgy of the Siberian Branch of the Academy of Sciences USSR); A.I. Stroganov. and D. Ya. Povolotskiy (Chelyabinsk Polytechnic Institute); P.V. Umrikhin ,Ural Polytechnic Institute); I.I. Fomin (the Moscov "Serp 1 molot" Metallurgical Plant); V.A. Fuklev (Central Asian Polytechnic Institute)

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